

Antenna Sample Datasheet

customer:	Jiangxi Taide Wisdom Technology Co.,Ltd
entry name:	1002
Material category:	BT antenna
Antenna Type	Monopole
Antenna Material	FPC
edition:	A0
Date:	2024. 5. 17

Antenna manufacturer:Hongji Wireless Communication (Shenzhen) Co., LTD

<http://www.honant.com.cn>

Address:12 / F, West Block B, Building 8, Huaqiang Creative Industry Park,
Sightseeing Road, Guangming District, Shenzhen

Contents

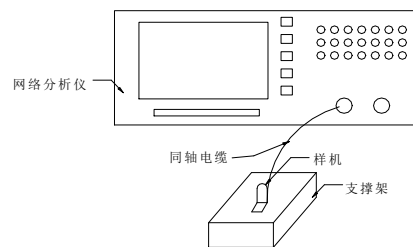
1: Antenna test equipment.....	1
2: Passive test report.....	3
3: Structural drawing.....	6
4: Antenna diagram.....	7

1: Antenna test equipment

List of meters: Agilent 5071B;

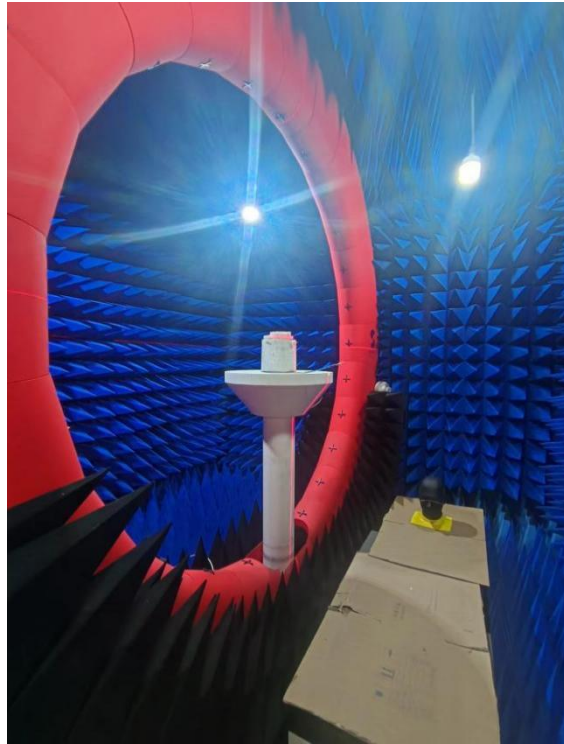


1.1 The principle diagram of the ETS anechoic chamber



Picture1. Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber



Inside the ETS anechoic chamber



Test Machine

2: Passive test report

2.1: antenna S11 parameters

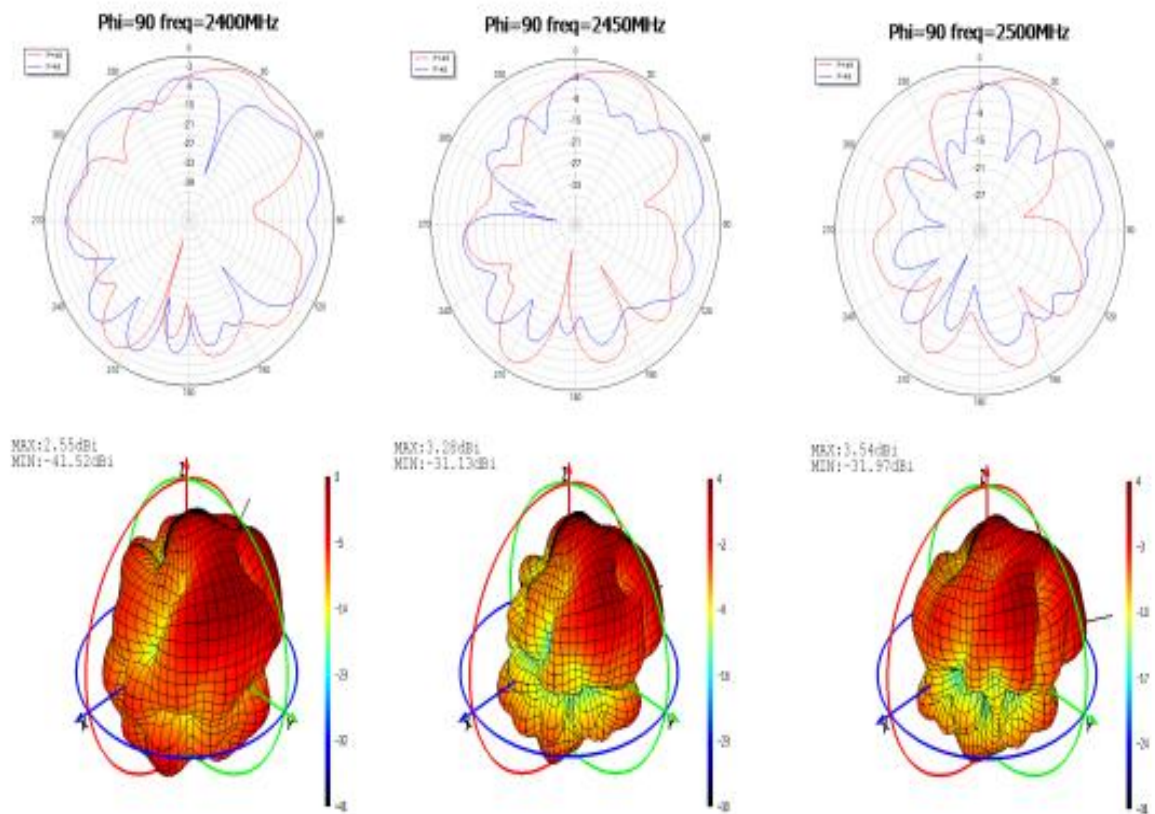


2.2: Passive efficiency of antenna

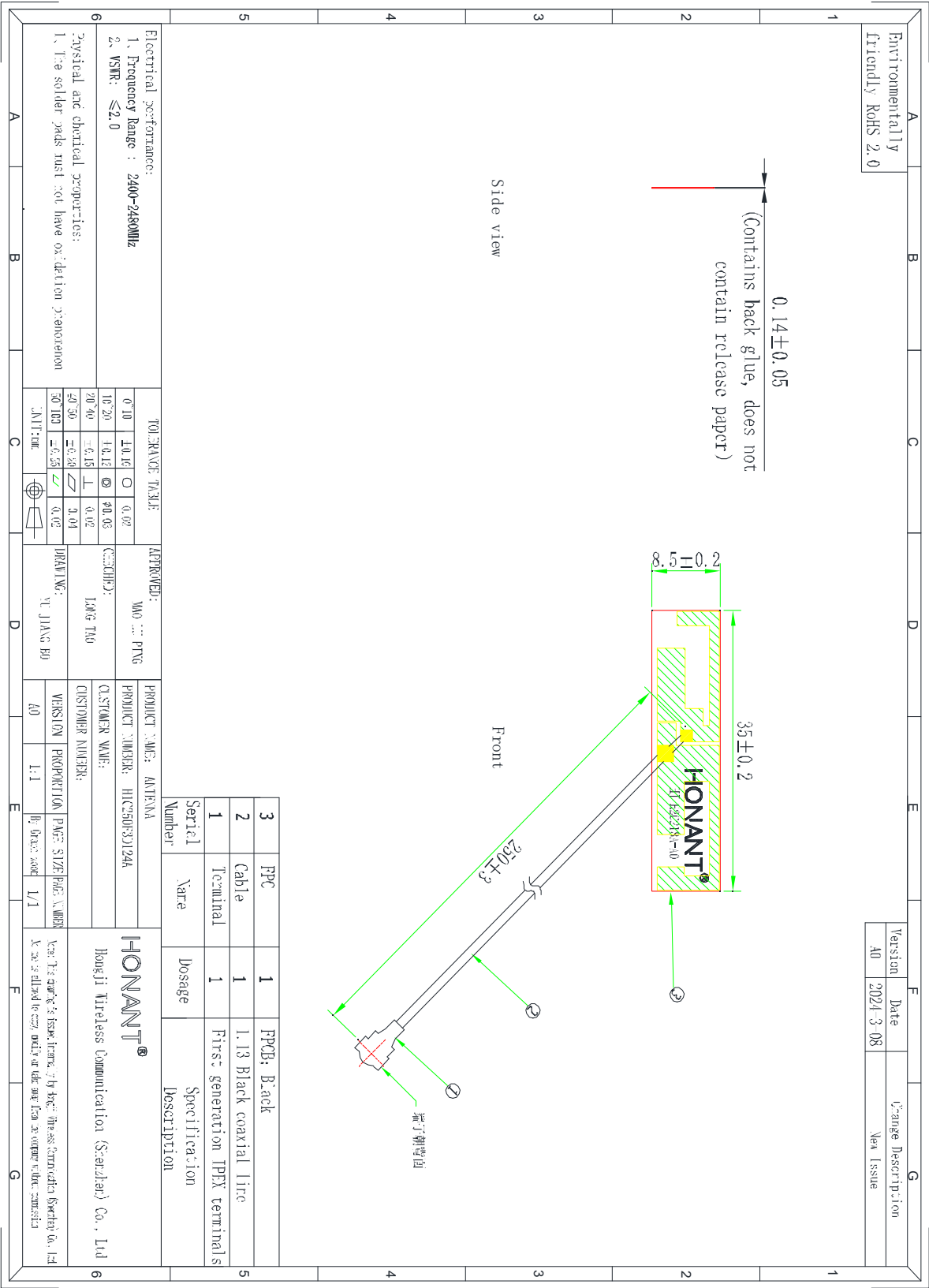
2400-2500MHz			
Freq(MHz)	Gain(dBi)	Efficiency(db)	Efficiency(%)
2400	2.55	-3.27	47.09
2410	2.94	-3.24	47.37
2420	3.1	-3.14	48.5
2430	3.13	-2.9	51.3
2440	3.05	-2.76	53.01
2450	3.28	-2.69	53.86
2460	3.51	-2.75	53.11
2470	3.82	-2.72	53.46
2480	3.87	-2.86	51.73
2490	3.63	-3.28	46.99
2500	3.54	-3.3	46.78
AVG	3.25	-2.93	51.05

2.3: Passive pattern of BT antenna

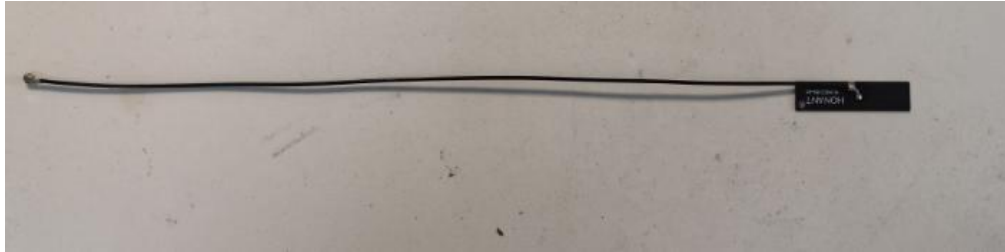
2400-2500MHz



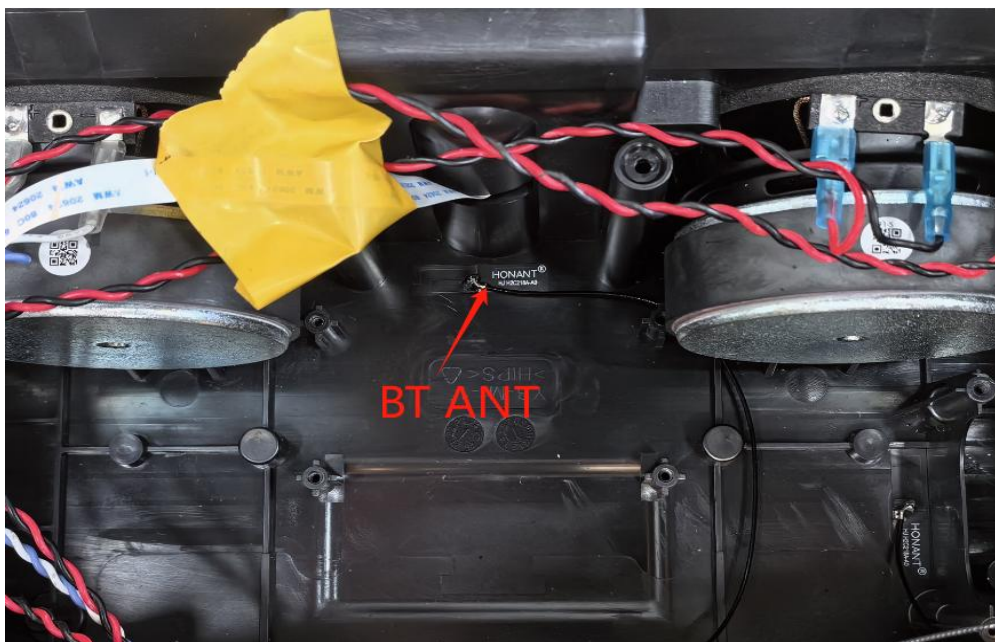
3: Structural drawing



4: Antenna diagram



Product picture



Antenna Sample Datasheet

customer:	Jiangxi Taide Wisdom Technology Co.,Ltd
entry name:	1002
Material category:	MIC-1 antenna
Antenna Type	Monopole
Antenna Material	FPC
edition:	A0
Date:	2024. 5. 17

Antenna manufacturer:Hongji Wireless Communication (Shenzhen) Co., LTD

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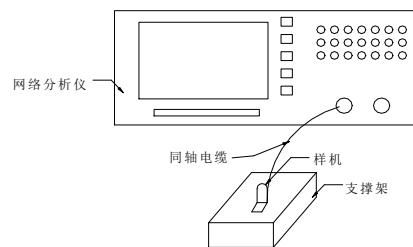
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1: Antenna test equipment

List of meters: Agilent 5071B;



1.1 The principle diagram of the ETS anechoic chamber



Picture1. Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber



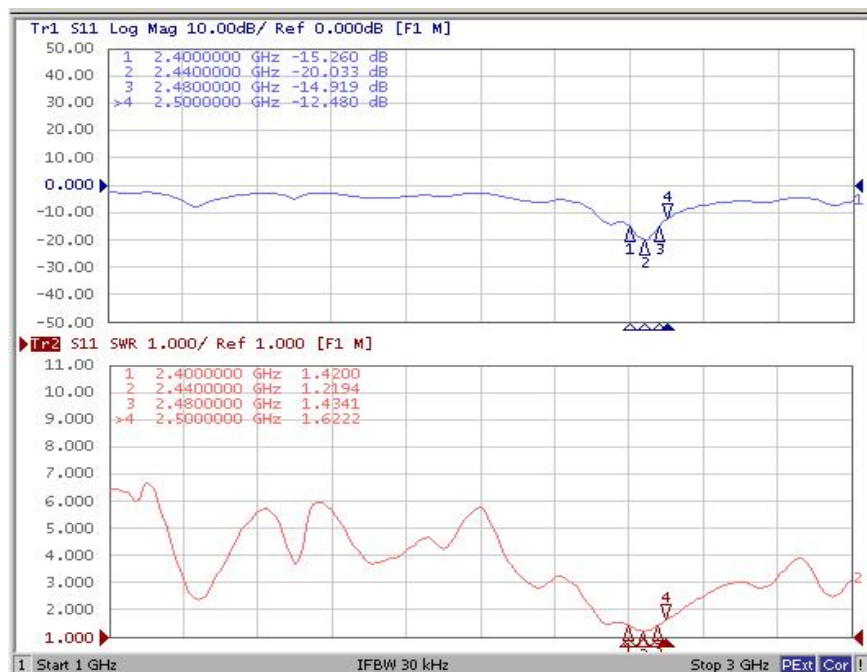
Inside the ETS anechoic chamber



Test Machine

2: Passive test report

2.1: antenna S11 parameters

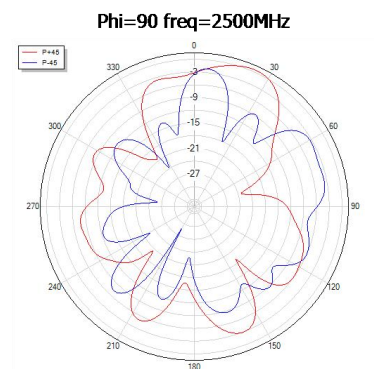
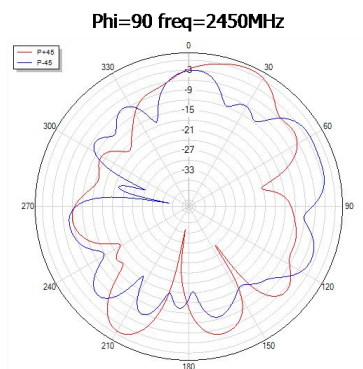
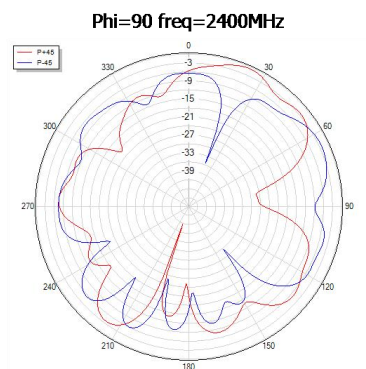


2.2: Passive efficiency of antenna

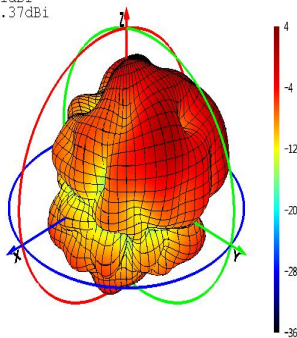
2400-2500MHz			
Freq(MHz)	Gain(dBi)	Efficiency(db)	Efficiency(%)
2400	3.51	-3.57	50.49
2410	3.53	-3.48	51.68
2420	3.82	-3.29	51.75
2430	3.87	-3.14	51.54
2440	3.63	-2.82	51.47
2450	3.54	-2.83	51.39
2460	3.65	-3.07	54.29
2470	3.88	-3.17	51.60
2480	3.74	-3.28	49.87
2490	3.91	-3.44	48.59
2500	3.96	-3.36	49.74
AVG	3.73	-3.22	51.13

2.3: Passive pattern of BT antenna

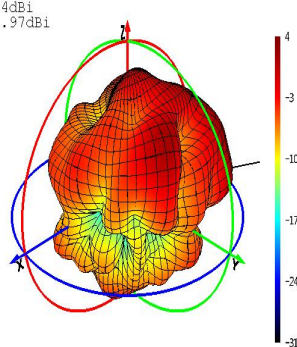
2400-2500MHz



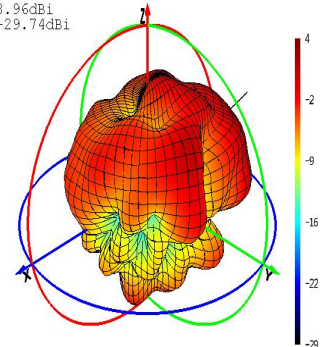
MAX: 3.51dBi
MIN: -37.37dBi



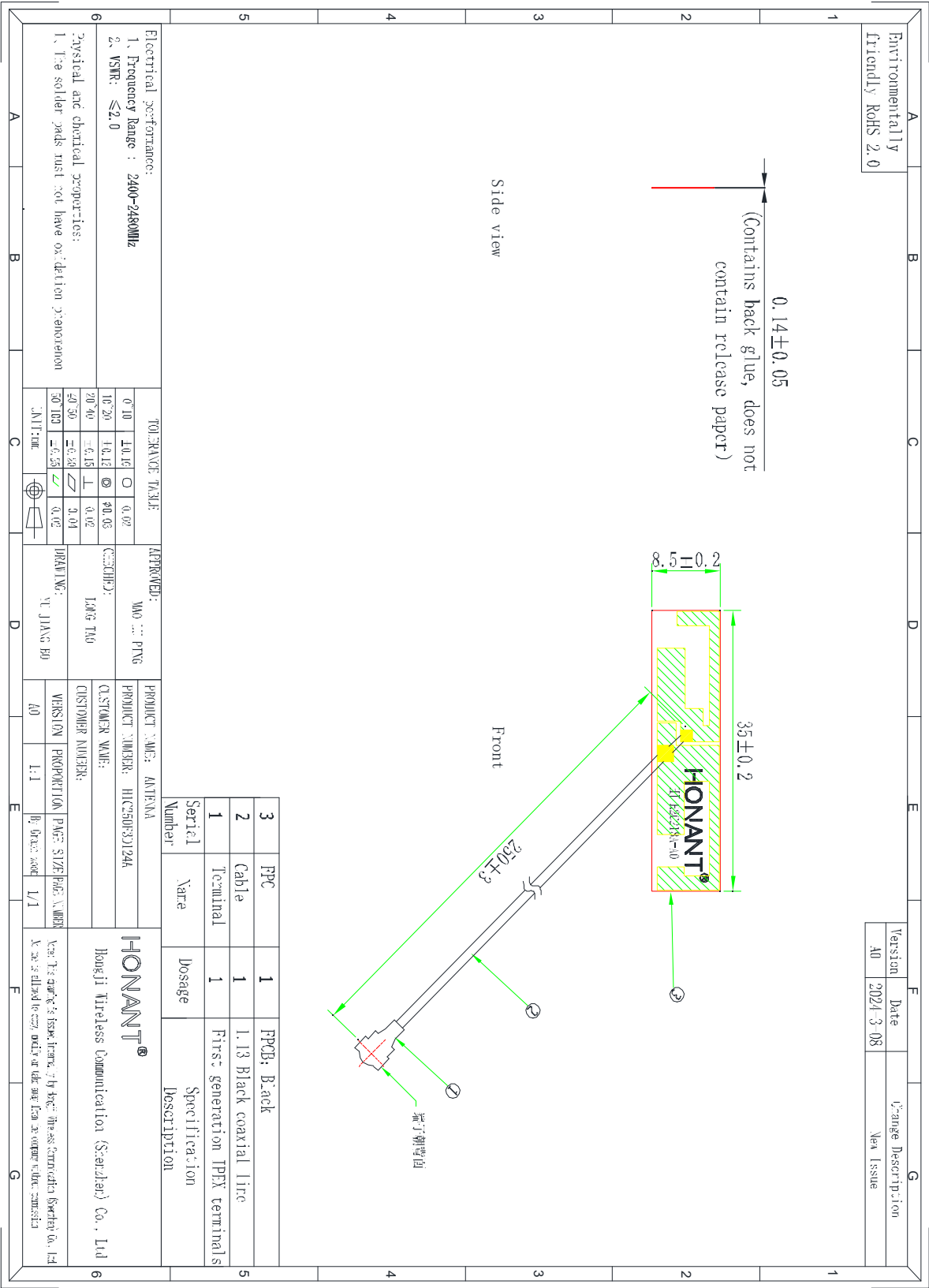
MAX: 3.54dBi
MIN: -31.97dBi



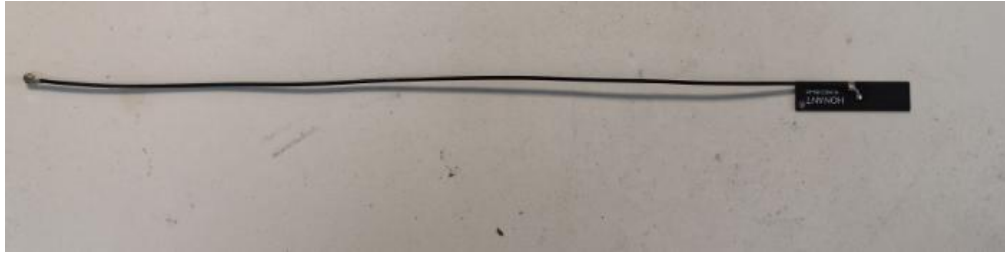
MAX: 3.96dBi
MIN: -29.74dBi



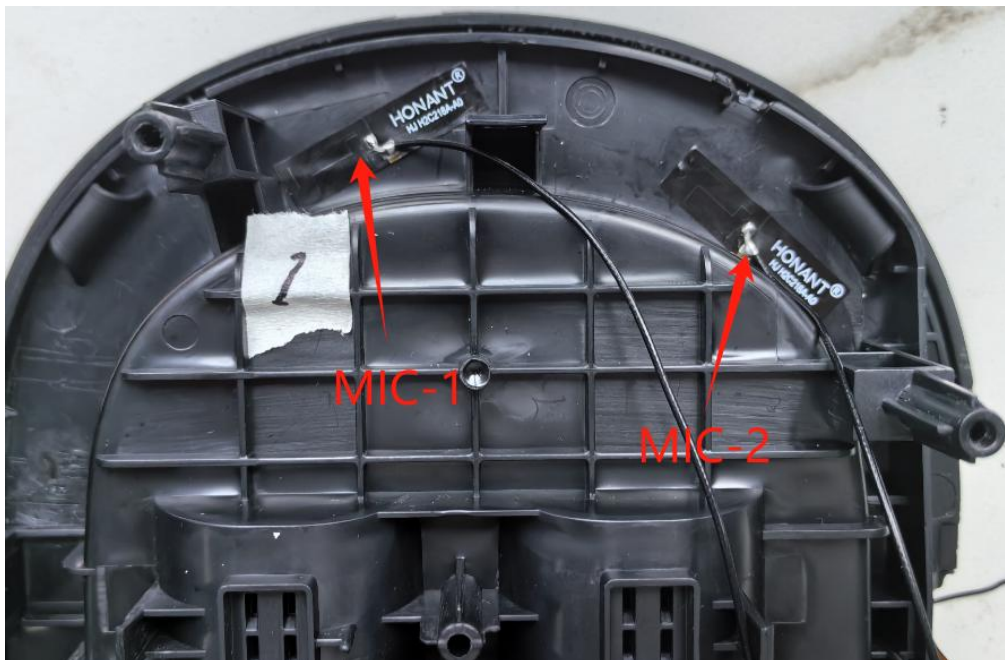
3: Structural drawing



4: Antenna diagram



Product picture



Antenna Sample Datasheet

customer:	Jiangxi Taide Wisdom Technology Co.,Ltd
entry name:	1002
Material category:	MIC-2 antenna
Antenna Type	Monopole
Antenna Material	FPC
edition:	A0
Date:	2024. 5. 17

Antenna manufacturer:Hongji Wireless Communication (Shenzhen) Co., LTD

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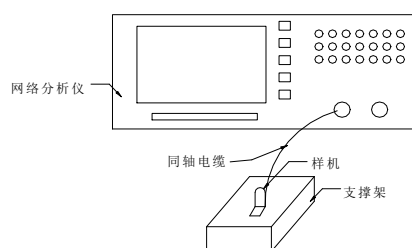
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1: Antenna test equipment

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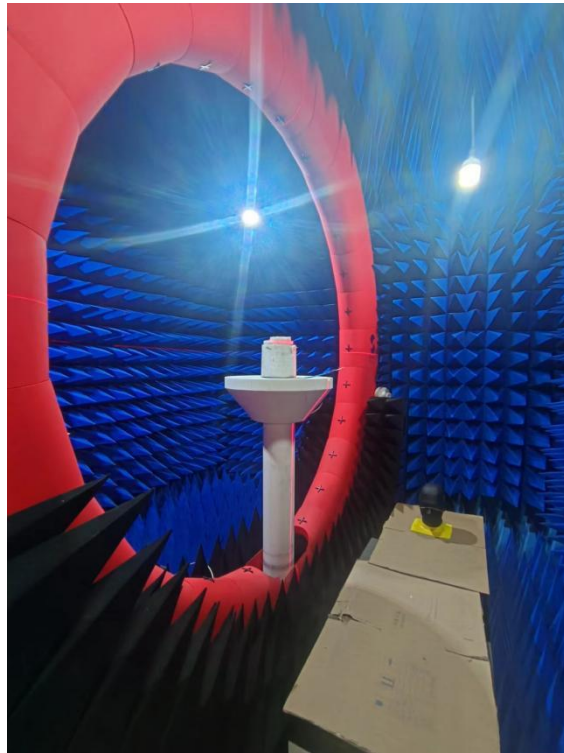


1.1 The principle diagram of the ETS anechoic chamber



Picture1. Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber



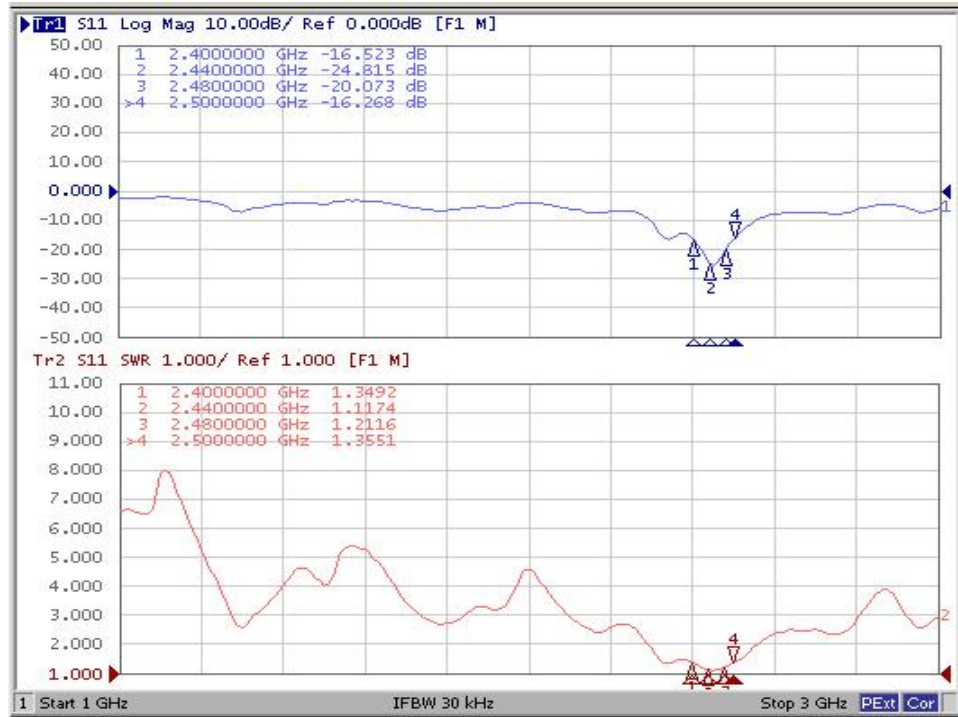
Inside the ETS anechoic chamber



Test Machine

2: Passive test report

2.1: antenna S11 parameters

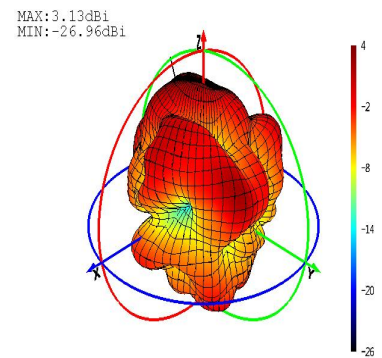
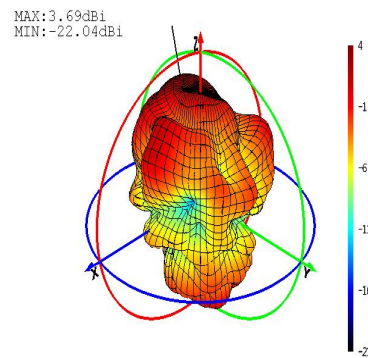
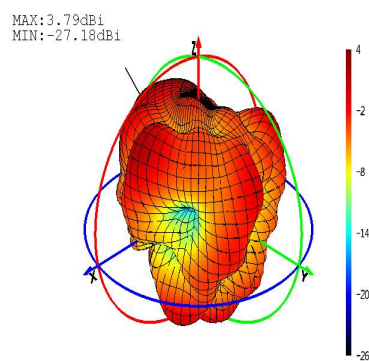
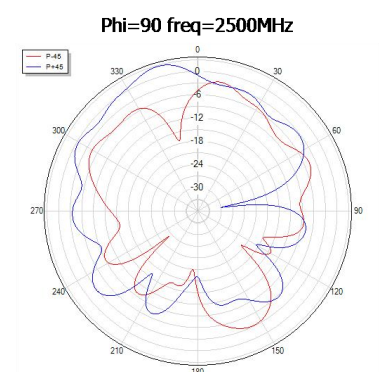
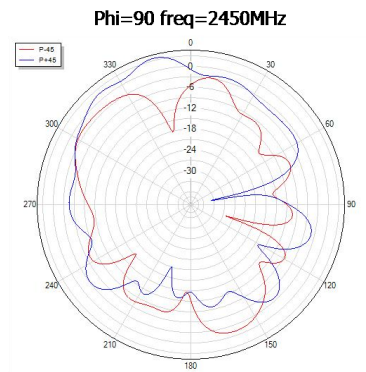
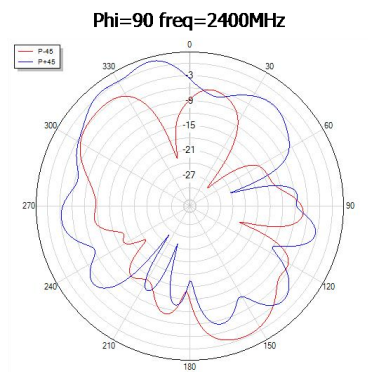


2.2: Passive efficiency of antenna

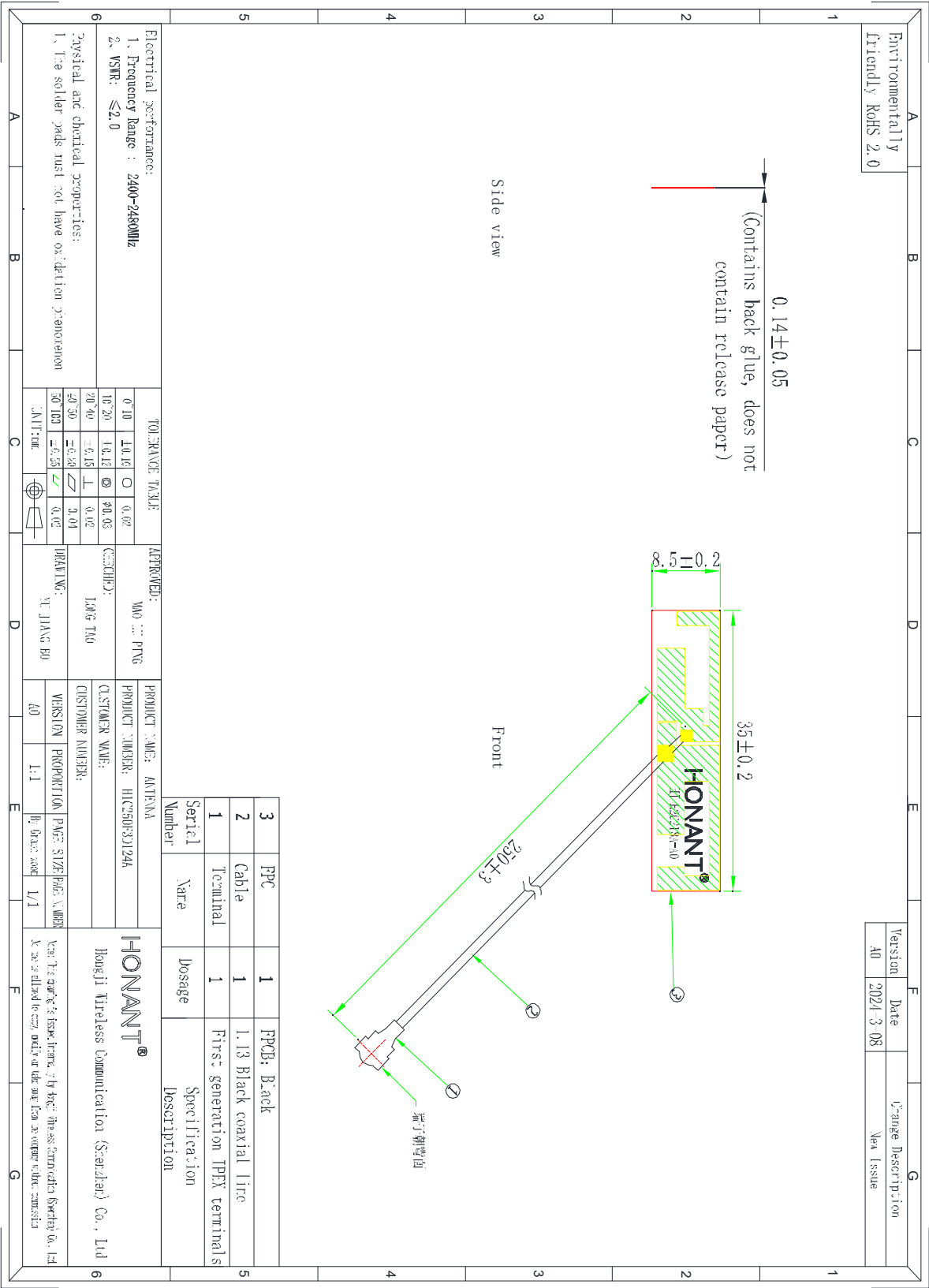
2400-2500MHz			
Freq(MHz)	Gain(dBi)	Efficiency(db)	Efficiency(%)
2400	3.79	-3.11	48.83
2410	3.84	-3.04	49.66
2420	3.91	-2.85	51.90
2430	3.87	-2.92	51.01
2440	3.76	-3.04	49.68
2450	3.69	-3.03	49.78
2460	3.96	-2.98	50.36
2470	3.97	-2.91	51.15
2480	3.76	-3.13	48.63
2490	3.31	-3.14	48.52
2500	3.13	-3.27	47.70
AVG	3.73	-3.04	49.75

2.3: Passive pattern of BT antenna

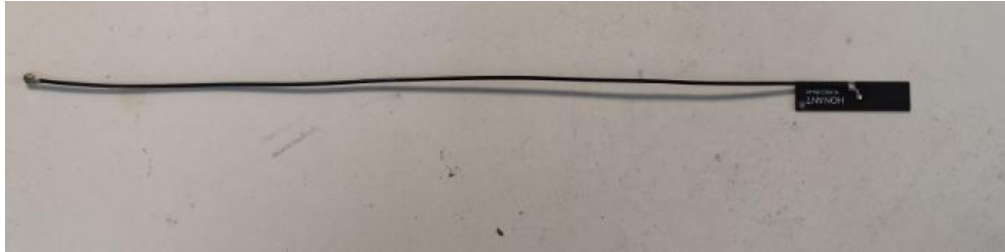
2400-2500MHz



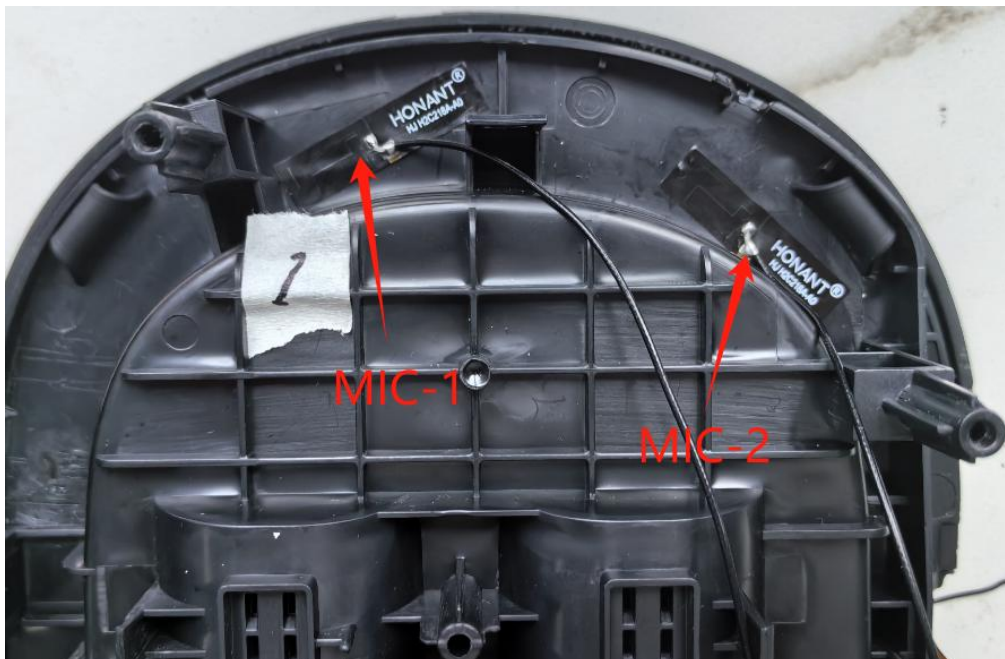
3: Structural drawing



4: Antenna diagram



Product picture



Antenna Sample Datasheet

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entry name:	1002
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Antenna Material	FPC
edition:	A0
Date:	2024. 5. 17

Antenna manufacturer: Hongji Wireless Communication (Shenzhen) Co., LTD

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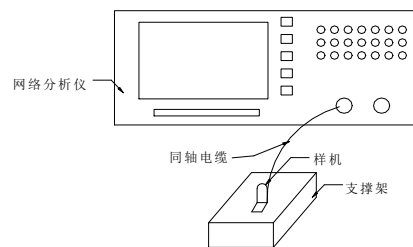
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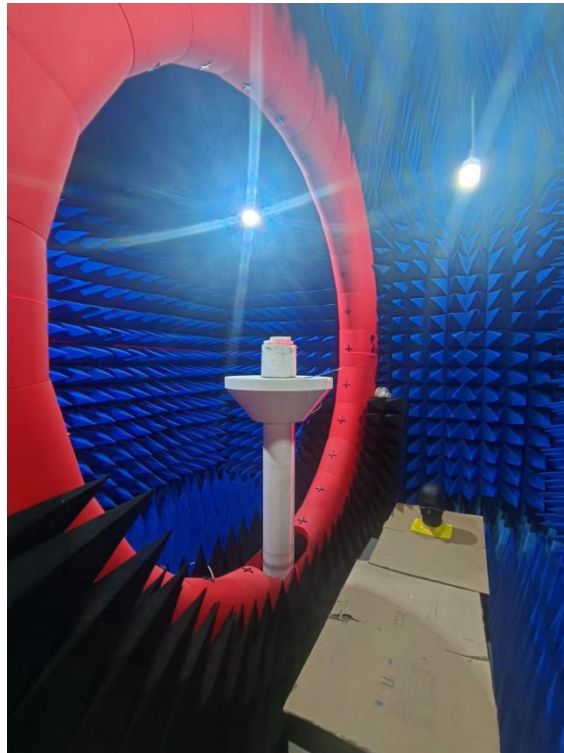


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Picture1.Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber



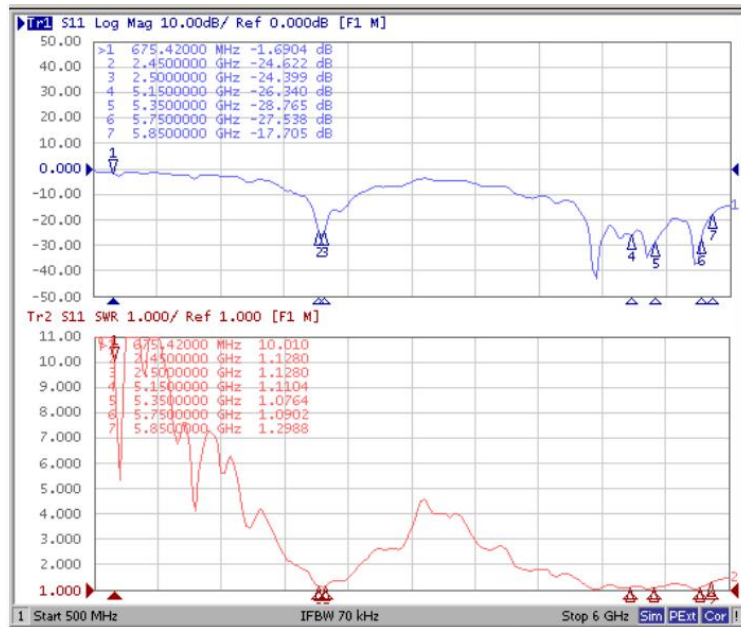
Inside the ETS anechoic chamber



Test Machine

2: Passive test report

2.1: antenna S11 parameters



2.2: Passive efficiency of antenna

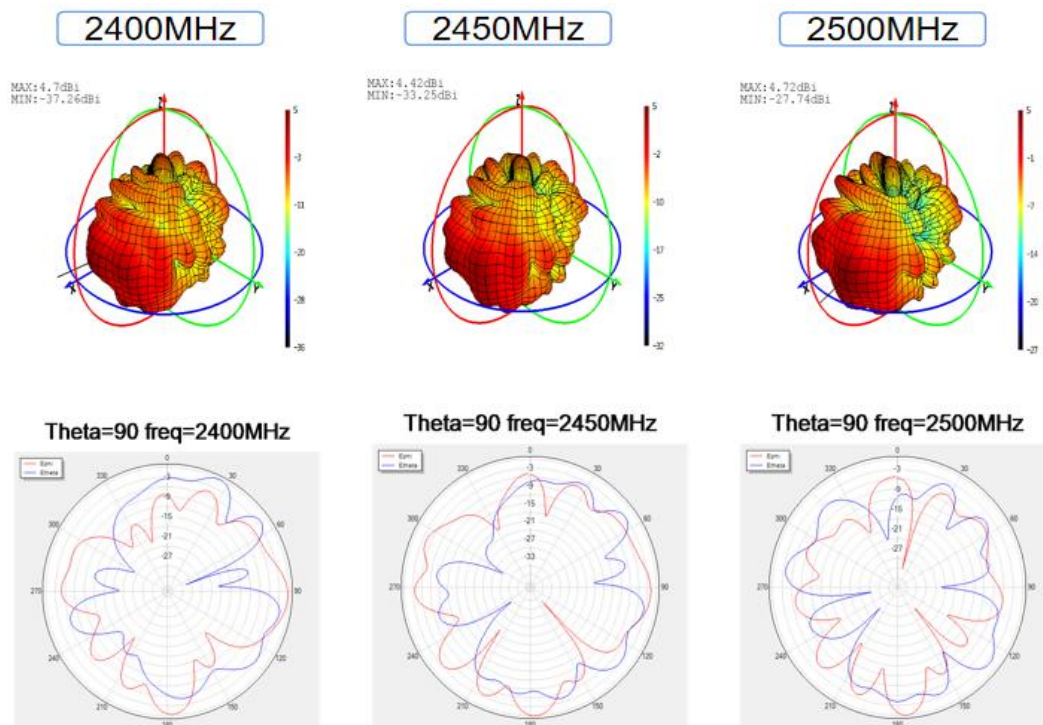
2400-2500MHz

frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-2.33	58.52	4.70
2410	-2.32	58.62	4.51
2420	-2.37	57.95	4.36
2430	-2.44	57.06	4.28
2440	-2.49	56.35	4.36
2450	-2.51	56.07	4.42
2460	-2.51	56.05	4.37
2470	-2.47	56.58	4.25
2480	-2.37	57.91	4.28
2490	-2.27	59.27	4.44
2500	-2.24	59.72	4.72
AVG	-2.39	57.65	4.43

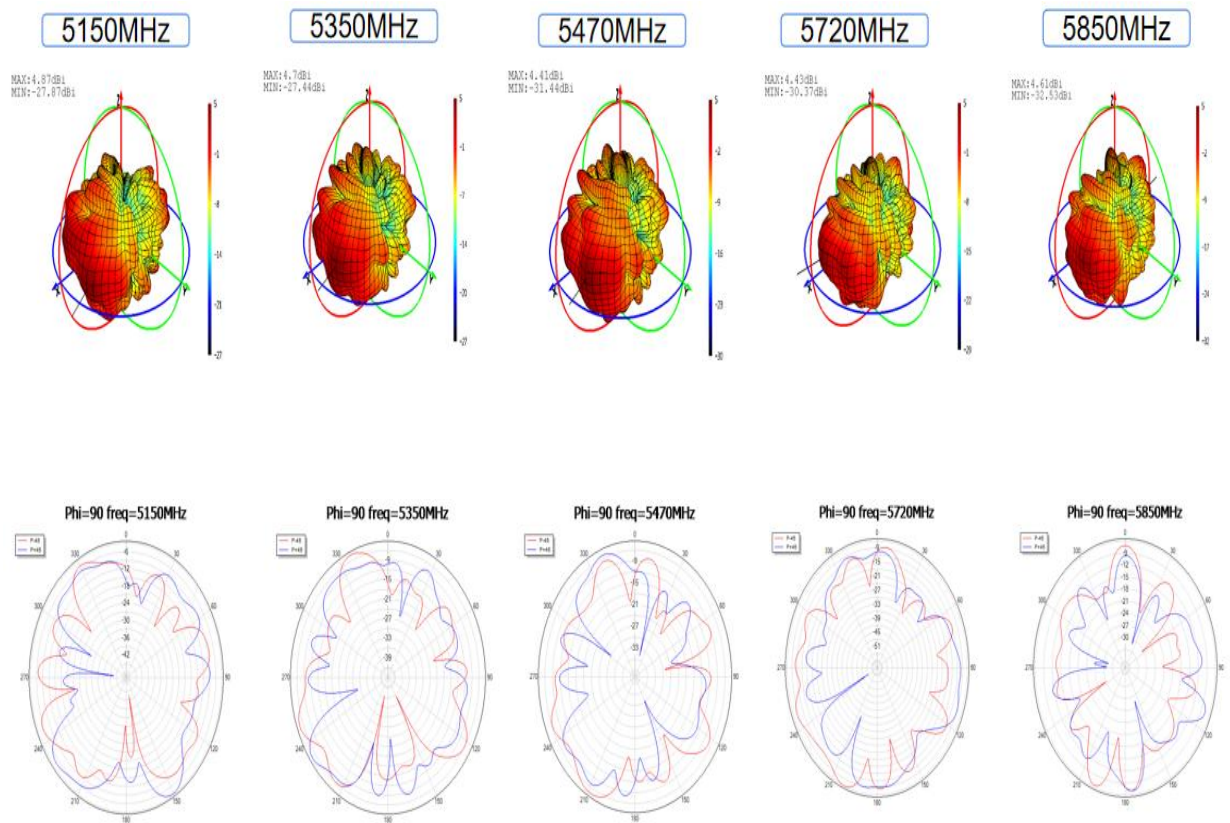
5150-5850MHz			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5150	-2.32	58.63	4.87
5200	-2.59	55.09	4.66
5250	-2.41	57.44	5.26
5300	-2.58	55.15	4.80
5350	-2.39	57.71	4.70
5500	-3.40	45.76	4.01
5550	-3.37	45.98	4.59
5600	-3.37	46.01	4.33
5650	-3.28	46.95	4.99
5700	-3.56	44.03	4.79
5750	-3.41	45.57	4.48
5800	-3.33	46.48	3.97
5850	-3.39	45.83	4.61
AVG	-3.03	50.05	4.62

2.3: Passive pattern of BT antenna

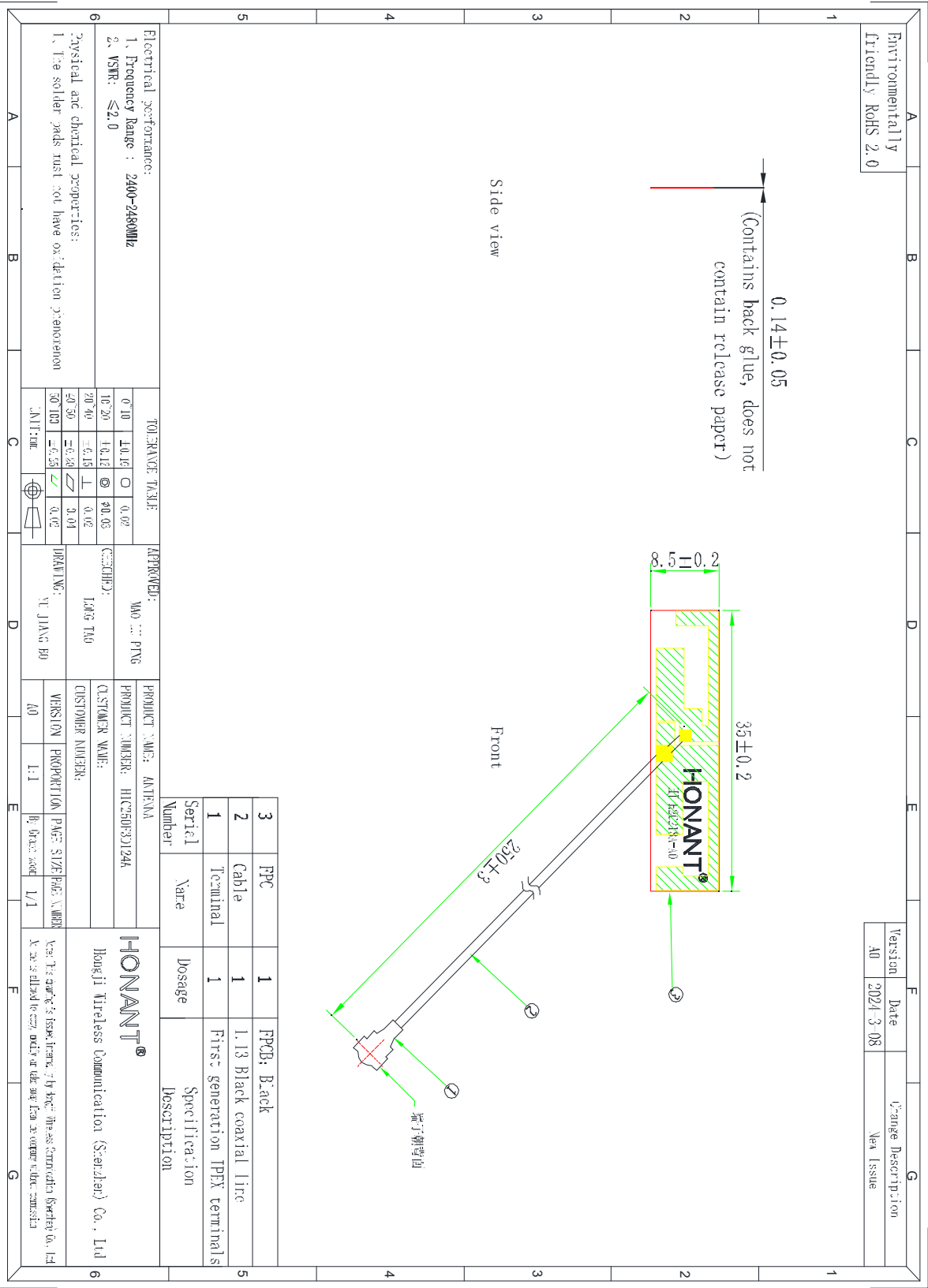
2400-2500MHz



5150-5850MHz

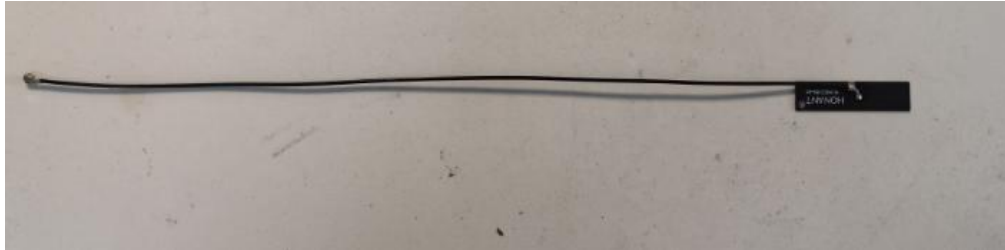


3: Structural drawing



Version	Date	Change Description
A0	2024-3-08	New Issue

4: Antenna diagram



Product picture

